STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES  DIVISION OF OIL, GAS AND MINING						FORI	
APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER Moon 4-20-4-2			
2. TYPE OF WORK  DRILL NEW WELL	REENTER P&A WE	ELL DEEPEN V	WELL (		3. FIELD OR WILDO	CAT UNDESIGNATED	
4. TYPE OF WELL Oil We	ll Coalbed Me	thane Well: NO			5. UNIT or COMMUI	NITIZATION AGRE	EMENT NAME
6. NAME OF OPERATOR	HARVEST (US) HOLDI	NGS, INC			7. OPERATOR PHOP	NE 281 899-5722	
8. ADDRESS OF OPERATOR 1177 E	nclave Parkway, Hous	ston, TX, 77077			9. OPERATOR E-MA jmo	IL ckee@harvestnr.com	
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)		MINERAL OWNERS		_	12. SURFACE OWN		a(a)
Fee 13. NAME OF SURFACE OWNER (if box 12		DERAL NDIAI	N ( STATE (		FEDERAL INI	DIAN ( STATE (	~ ~
15. ADDRESS OF SURFACE OWNER (if box	Moon Ranch, L	LC			16. SURFACE OWNI		
	P.O. Box 154,	, INTEND TO COMM	INCLE PRODUCT		19. SLANT	(	,
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	MUL	TIPLE FORMATION	NS		_		<u>~</u>
	YES	S () (Submit Com	mingling Applicat	ion) NO 📵		RECTIONAL ( ) HO	ORIZONTAL (
20. LOCATION OF WELL	FOOTA		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2131 FSL 1		NESW	20	4.0 S	2.0 W	U
Top of Uppermost Producing Zone	2131 FSL 18	842 FWL	NESW	20	4.0 S	2.0 W	U
At Total Depth	2131 FSL 18		NESW	20	4.0 S	2.0 W	U
21. COUNTY  DUCHESNE		DISTANCE TO NEA	509		23. NUMBER OF AC	40	JNIT
		DISTANCE TO NEA plied For Drilling o		AME POOL	<b>26. PROPOSED DEPTH</b> MD: 6600 TVD: 6600		
27. ELEVATION - GROUND LEVEL 5408	28.	BOND NUMBER	B004657		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Neil Moon Pond		
	*	ATT	ACHMENTS	,			
VERIFY THE FOLLOWING	ARE ATTACHED I	N ACCORDANCE	WITH THE U	ΓAH OIL AND G	AS CONSERVATI	ON GENERAL RU	ILES
WELL PLAT OR MAP PREPARED BY	LICENSED SURVEYO	OR OR ENGINEER	[ сом	COMPLETE DRILLING PLAN			
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)				FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)				OGRAPHICAL MAP			
NAME Terry Hoffman TITLE Permitting Age			Agent	pent PHONE 303 250-0619			
SIGNATURE         DATE 12/29/2008			8		EMAIL tlhoffman@	q.com	
<b>API NUMBER ASSIGNED</b> 43013500020000		APPROVAL		F	Permit Manager		
	Permit Manager						

API Well No: 43013500020000 Received: 12/29/2008

	Proposed Hole, Casing, and Cement							
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)				
Surf	12.25	8.625	0	600				
Pipe	Grade	Length	Weight					
	Grade J-55 ST&C	600	24.0					
						Γ		

CONFIDENTIAL

API Well No: 43013500020000 Received: 12/29/2008

	Proposed Hole, Casing, and Cement							
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)				
Prod	7.875	5.5	0	6600				
Pipe	Grade	Length	Weight					
	Grade J-55 LT&C	6600	15.5					

CONFIDENTIAL

#### HARVEST (US) HOLDINGS, INC.

#### MOON #4-20-4-2

NESW Section 20-T4S-R2W Duchesne County, Utah

#### DRILLING PROGRAM

#### 1. <u>GEOLOGIC SURFACE FORMATION</u>

Uinta formation of Upper Eocene Age

#### 2. <u>ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS</u>

UINTAH 0' - 2,750' GREEN RIVER 2,750' TD 6,600'

#### 3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS

Green River Formation (Oil) 2,750' – 6,600'

Fresh water may be encountered in the Uintah Formation, but would not be expected below about 350'.

#### 4. PROPOSED CASING PROGRAM

#### a. Casing Design:

Size	Interval		Weight	Grade Coupling		Coupling Design Factors		
Size	Top	Bottom	weight	Grade	Coupling	Burst	Collapse	Tension
Surface Casing 8-5/8"	0,	600'	24.0	T 55	CTC	2,950 psi	1,370 psi	244,000 lbf
Hole Size 12-1/4"	U	600'	24.0	J-55	STC	9.96 SF	5.23 SF	16.9 SF
Prod. Casing 5-1/2"	0,	c coo;	15.5	1 55	I TC	4,810 psi	4,040 psi	217,000 lbf
Hole Size 7-7/8"	0'	6,600'	15.5	J-55	LTC	2.29 SF	1.92 SF	2.12 SF

#### Assumptions:

- 1) Surface casing Maximum Allowable Surface Pressure (MASP) = Fracture gradient Gas gradient
- 2) Production casing MASP (production mode) = Pore pressure gas gradient
- 3) All collapse calculations assume fully evacuated casing w/gas gradient
- 4) All tension calculations assume air weight

Fracture gradient at surface casing shoe = 13.0 ppg
Pore pressure at surface casing shoe = 8.33 ppg
Pore pressure at production casing shoe = 8.33 ppg
Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.

#### **b.** Cementing Design:

Job	Fill	Description	Sacks ft <sup>3</sup>	OH Excess*	Weight (ppg)	Yield (ft³/sk)
Surface casing	600'	Class G w/ 2% CaCl	276 322	30%	15.8	1.17
Prod. casing Lead	4,600'	Prem Lite II w/ 10% gel + 3% KCl	318 1036	30%	11.0	3.26
Prod. casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

<sup>\*</sup>Actual volume pumped will be 15% over the caliper log.

Waiting on Cement (WOC): A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a minimum of 500 psi prior to drilling out.

The 8-5/8" surface casing shall, in all cases, be cemented back to surface. In the event that during the primary surface cementing operation, the cement does not circulate to surface, or if the cement level should fall back more than 8' from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

The production casing cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals.

As a minimum, usable water zones shall be isolated and/or protected by having a cement top for the production casing at least 200' above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable pre-flush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

<sup>-</sup>Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours.

<sup>-</sup>Compressive strength of tail cement: 2500 psi @ 24 hours

#### 5. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS

<b>Depth</b>	Type	Weight	Vis	Water Loss
0-3200'	*Water	8.33	27	N/C
3200-TD	Water	8.4	27	N/C
*or an air/mis	st system			

From surface to  $\pm 3200$  feet will be drilled with either fresh water or an air/mist system, depending on the drilling contractor's capabilities. From about 3200 feet, or in the case of the air/mist system when hole conditions dictate, to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCL substitute additive. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 ppg. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite, and if pressure conditions warrant, with barite.

#### 6. AUXILIARY SAFETY EQUIPMENT TO BE USED

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

#### 7. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

The Company's minimum specifications for pressure control equipment for a standard Green River well are as follows:

A 2000 psi WP hydraulic BOP stack consisting of two ram preventers (double or two singles) and either an annular preventer or a rotating head. If no annular preventer is used, ram blocks will be changed to match the outside diameter of casing and the stack will be retested prior to running any casing string.

Connections – All components on the stack and choke and kill lines shall have either flanged, studded, clamp hub or equivalent proprietary connections except control line outlets and pressure gauges.

Choke Manifold – The minimum equipment requirements are shown below. The choke manifold shall be located at least 5 feet from the BOP stack, outside the substructure.

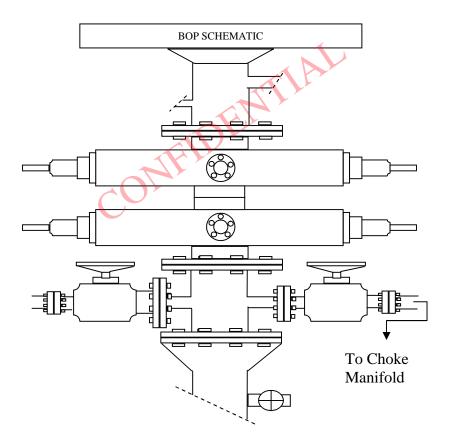
Pressure Monitoring – A means of monitoring the inlet pressure of the choke manifold shall be provided. The capability to isolate this outlet shall be provided.

Drill String Control Devices – An upper and lower Kelly valve, drill string safety valve, including correct closing handle, and an inside BOP shall be provided. The safety valve and inside BOP shall have connections or crossovers to fit all tubulars with OD to allow adequate clearance for running in the hole. All drill string valves shall be rated to the required BOP working pressure.

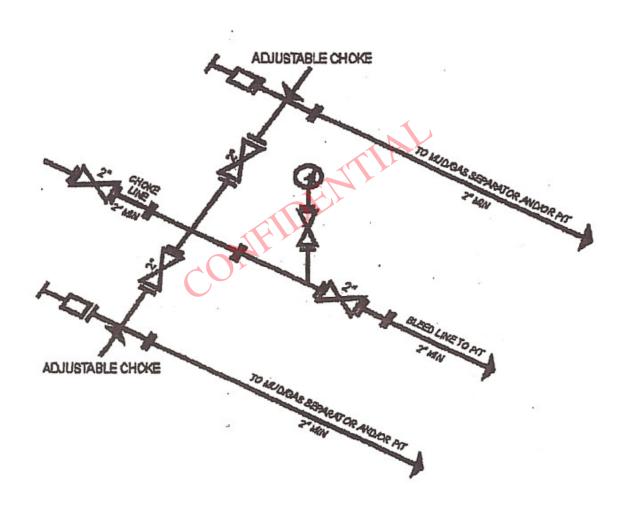
The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 (BLM) for equipment and testing requirements, procedures, etc., for a 2000 psi system, and individual components shall be operable as designed.

Function test of the BOP equipment shall be made daily. All required BOP tests and/or drills shall be recorded in the Daily report.

Chart recorders will be used for all pressure tests. Test charts, with individual test results identified, shall be maintained on location while drilling.



2000 psi Choke Manifold



#### 8. TESTING, LOGGING AND CORING PROGRAMS

#### a. Logging Program:

FDC/CNL/GR/DLL: TD - 3,200'

CBL: A cement bond log will be run from TD to the cement top of the production

casing.

Note: The log types run may change at the discretion of the geologist.

**b.** Cores: As deemed necessary

**c. Drill Stem Tests:** No DSTs are planned in the Green River

Drill stem tests, if they are run, will adhere to the following requirements: Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the Authorized Officer (AO). However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DSTs may be performed day or night.

Some means of reverse circulation shall be provided in case of flow to the surface showing evidence of hydrocarbons.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

If a DST is performed, all engines within 100 feet of the wellbore that are required to be operational during the test shall have spark arresters or water-cooled exhausts.

#### 9. <u>ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE</u>

No abnormal pressures or temperatures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottom hole pressure will be fresh water gradient, i.e., 0.433 psi/foot of depth.

#### **10.** ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Anticipated Commencement Date: Upon approval of the site specific APD

Drilling Days: Approximately 7
Completion Days: Approximately 10-14

#### 11. <u>CONTACT INFORMATION:</u>

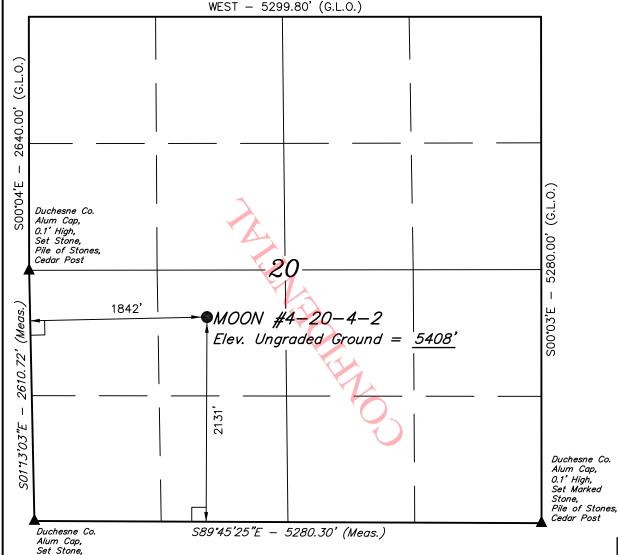
Rocky Mountain Permitting, LLC Terry L. Hoffman/Permitting Agent 303.250.0619 Office/Cell 303.412.8212 Fax tlhoffman@q.com

Please use the above mentioned contact for any questions or concerns regarding the Form 3 Application for Permit to Drill, Drilling Plan or scheduling the onsite inspection. If the above mentioned contact is not available you may reach the following person:

Harvest (US) Holding, Inc.
Joe Schmid
Uintah Drilling & Production Superintendent
435.725.1901 Office
832.794.6019 Cell
jschmidharvestnr.com

# 'APIWellNo:43013500020000'

#### T4S, R2W, U.S.B.&M.



#### LEGEND:

└ = 90° SYMBOL

= PROPOSED WELL HEAD.

lack = SECTION CORNERS LOCATED.

(NAD 83)

LATITUDE =  $40^{\circ}07'08.69''$  (40.119081)

LONGITUDE = 110°08'10.19" (110.136164) (NAD 27)

LATITUDE =  $40^{\circ}07'08.83''$  (40.119119) LONGITUDE =  $110^{\circ}08'07.64''$  (110.135456)

#### HARVEST (US) HOLDINGS, INC.

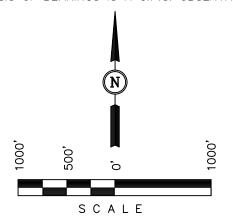
Well location, MOON #4-20-4-2, located as shown in the NE 1/4 SW 1/4 of Section 20, T4S, R2W, U.S.B.&M., Duchesne County, Utah.

#### BASIS OF ELEVATION

BENCH MARK U52 LOCATED IN THE SW 1/4 OF SECTION 29, T4S, R2W, U.S.B.&M. TAKEN FROM THE MYTON SW QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5508 FEET.

#### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



#### **CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLANE PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF NO. 161319

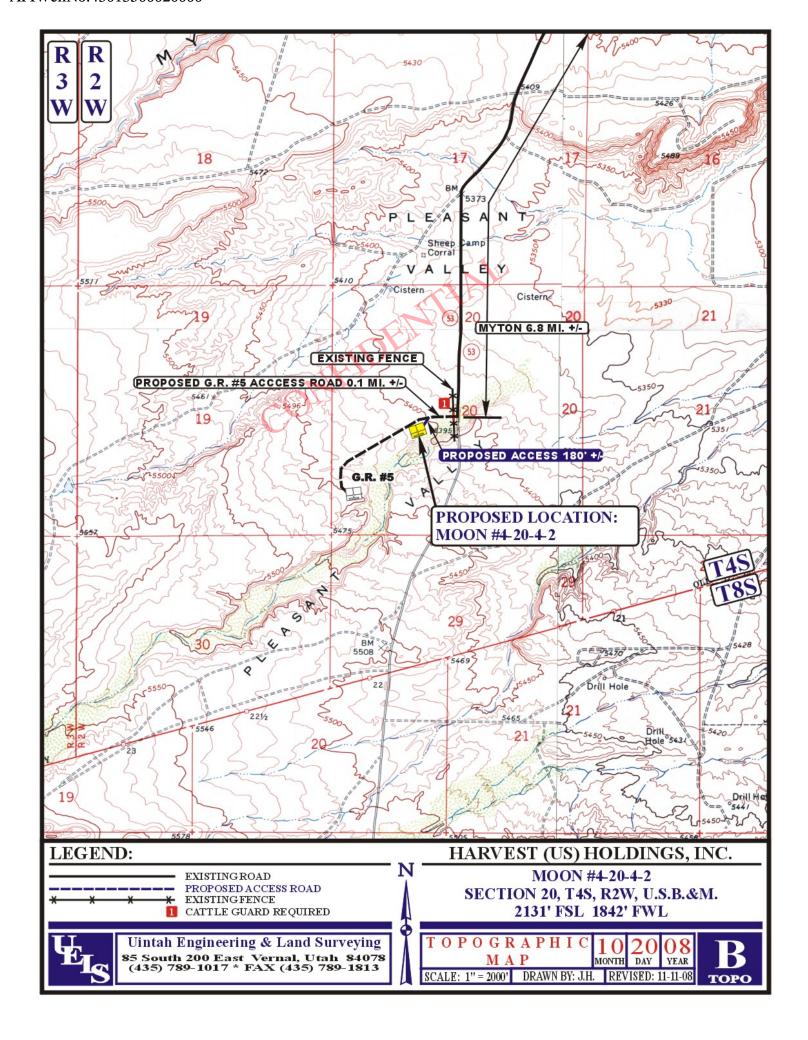
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF JAH17F CF

REVISED: 11-11-08

#### UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

` '			
SCALE	DATE SURVEYED:	DATE DRAWN:	
1" = 1000'	10-08-08 10-20-08		
PARTY	REFERENCES		
B.B. K.D. L.K.	G.L.O. PLAT		
WEATHER	FILE		
COOL	HARVEST (US) HOLDINGS, INC.		



#### MEMORANDUM OF SURFACE DAMAGE RELEASE

State of Utah	X		
County of Duchesne	)(		
A0000		Name of the Control o	MI

For Ten Dollars (\$10.00) and other adequate consideration, Moon Ranch, LLC of P.O Box 154, Duchesne, Utah 84021-0154, hereafter referred to as "Surface Owner has granted, a Surface Damage Release, to Harvest (US) Holdings, Inc. of 1177 Enclave Parkway, Suite 300, Houston, Texas 77077, hereafter referred to as "Harvest", dated November 26, 2008 for the purpose of drilling, and producing oil, gas, and other minerals, laying pipelines, building roads, tanks, power stations, telephone lines and other structures, and producing, saving, take care of, treating, transporting, and owning oil, gas, and other minerals, all on or from Oil & Gas Well on the following lands (the "Lands") in Duchesne County Utah:

Section 20 and Section 29, Township 4 South-Range 2 West, USM, Duchesne County.

Securificated Plat for well locations:

Plat well #	Well Name	Location
2	Moon #2-29-4-2	Center Lot 3 (SENW) Section 29
1	Moon #4-29-4-2	Center NENW Section 29
6	Moon //2-20-4-2	Center SESW Section 20
8	Moon #4-20-4-2	Center NESW Section 20

The Surface Damage Release is effective as long thereafter as oil, gas, or other minerals are produced from the Lands, or other lands pooled with the Lands, according to and by the terms and provisions of the Lease(s) covering said Lands. This Memorandum is placed of record for the purpose of giving notice of the Surface Damage Release.

SURFACE OWNER:		
Duda Moo-		
Gordon Moon, Managing	Member	

#### ACKNOWLEDGEMENT

STATE OF	Utab	}}	1-611
COUNTY OF	Uncheme	_)	}:8S

Given under my hand and seal the day and year last above written.

Notary Public J

NOtary Public

ANELAMIE DAWN CLEGG

Commission 6572784

My Commission Expirus.
Japuary 30, 2012

State of Uteh

December 4, 2008

Utah Division of Oil, Gas & Mining 1594 West North Temple, Suite 1210 Salt Lake City, Utah 84114-5801

RE: Designation of Agent

To Whom It May Concern:

By this letter, Harvest (US) Holdings, Inc. hereby authorizes Terry L. Hoffman with Rocky Mountain Permitting, LLC to act as Agent on behalf of Harvest (US) Holdings, Inc. within the State of Utah. Rocky Mountain Permitting, LLC is authorized to enter into agreements on behalf of Harvest (US) Holdings, Inc. with Federal, State and Local agencies and they shall have the ability to deliver and receive proprietary information for Harvest (US) Holdings, Inc.

DENTIAL

If you have any questions or concerns, please feel free to contact myself Joe Schmid at 435.725.1901, or via email at <a href="mailto:jschmid@harvestnr.com">jschmid@harvestnr.com</a>.

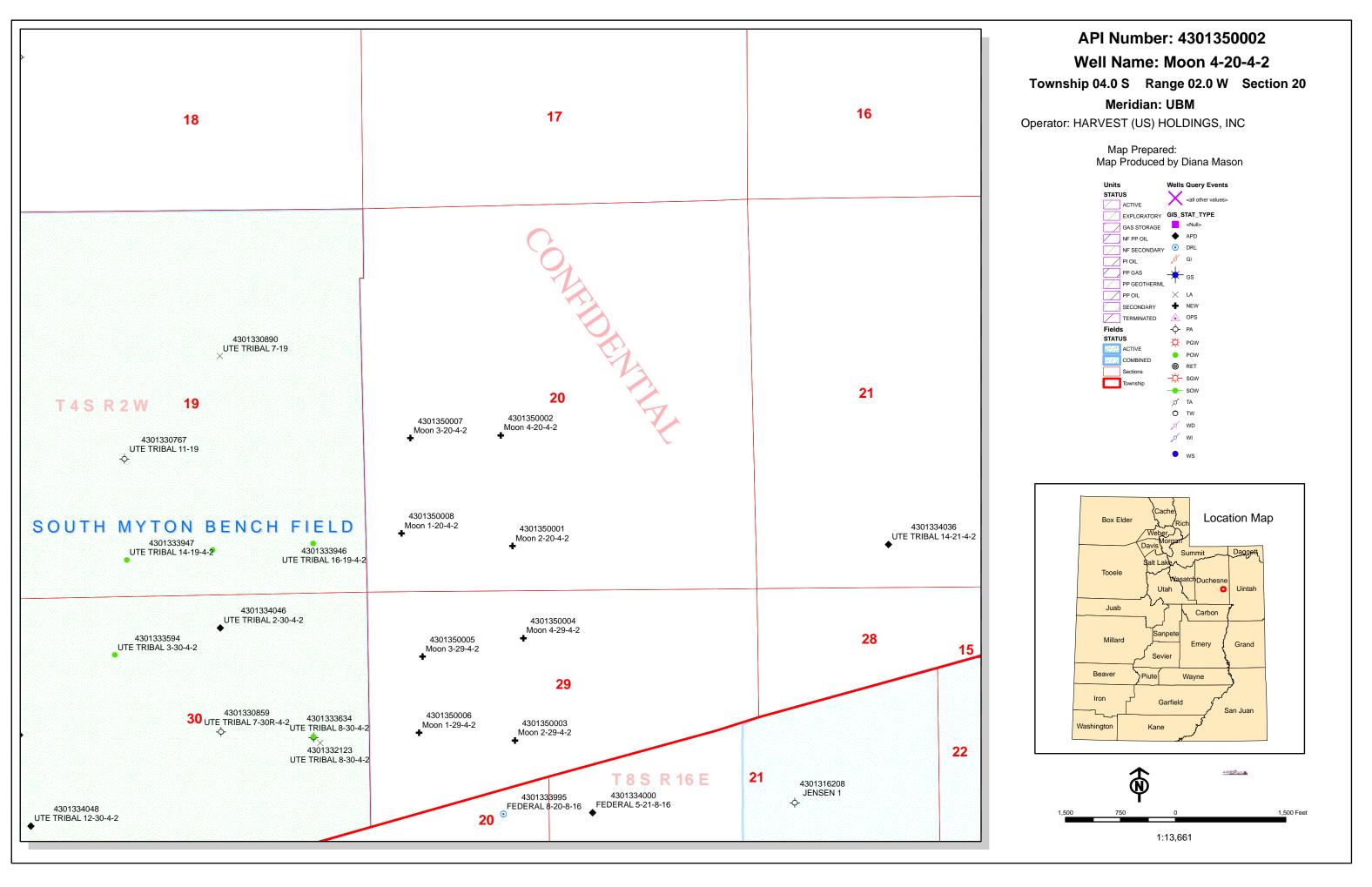
I thank you in advance for your cooperation.

Sincerely yours,

HARVEST (US) HOLDINGS, INC.

Joe Schmid Uintah Drilling & Production Superintendant

cc: Joe Schmid Rocky Mountain Permitting



#### BOPE REVIEW HARVEST (US) HOLDINGS, INC Moon 4-20-4-2 43013500020000

Well Name	HARVEST (US) HOLDINGS, INC Moon 4-20-4-2 43013500020000				
String	Surf	Prod			
Casing Size(")	8.625	5.500			
Setting Depth (TVD)	600	6600			
Previous Shoe Setting Depth (TVD)	0	600			
Max Mud Weight (ppg)	8.3	8.4			
BOPE Proposed (psi)	0	2000			
Casing Internal Yield (psi)	2950	4810			
Operators Max Anticipated Pressure (psi)	2858	8.3			

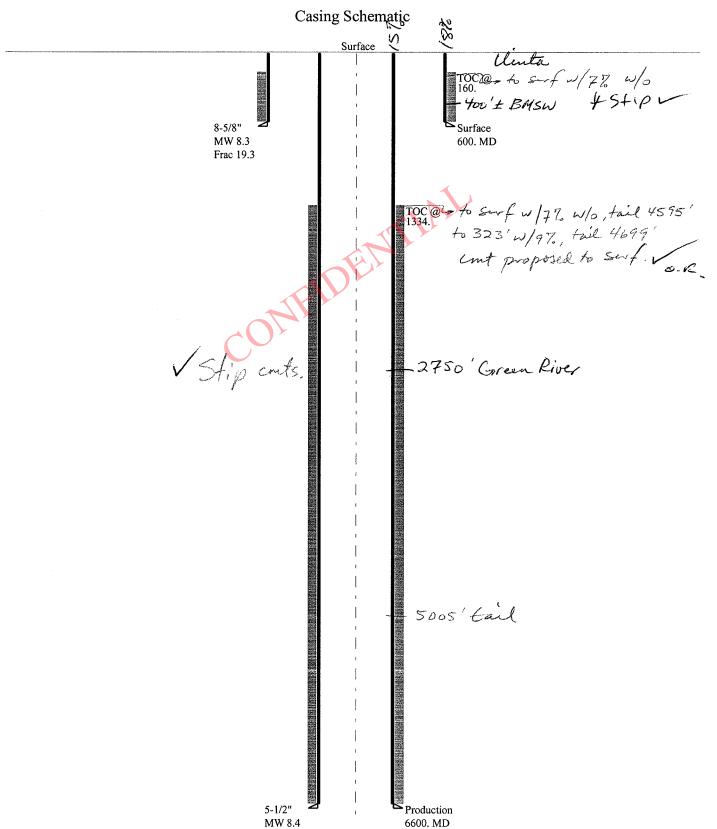
Calculations	Surf String	8.62	5 "
Max BPH (psi)	.052*Setting Depth*MW=	259	
		1	BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	187	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	127	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth)=	127	NO Reasonable depth, common in area, no expected pressures
Required Casing/BOPE To	est Pressure=	600	psi
*Max Pressure Allowed @	Previous Casing Shoe=	0	psi *Assumes 1psi/ft frac gradient

Calculations	Prod String	5.500	"
Max BPH (psi)	.052*Setting Depth*MW=	2883	
			<b>BOPE</b> Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2091	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1431	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth)=	1563	NO Reasonable, common in area, note max allowed pressure
Required Casing/BOPE Te	est Pressure=	2000	psi
*Max Pressure Allowed @	Previous Casing Shoe=	600	psi *Assumes 1psi/ft frac gradient

Calculations	String	"
Max BPH (psi)	.052*Setting Depth*MW=	
		BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	NO
		*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth)=	NO
Required Casing/BOPE To	est Pressure=	psi
*Max Pressure Allowed @	Previous Casing Shoe=	psi *Assumes 1psi/ft frac gradient

Calculations	String	"		
Max BPH (psi)	.052*Setting Depth*MW=			
		BOPE Adequate For Drilling And Setting Casing at Depth?		
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	NO		
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	NO		
		*Can Full Expected Pressure Be Held At Previous Shoe?		
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth)=	NO		
Required Casing/BOPE To	est Pressure=	psi		
*Max Pressure Allowed @	Previous Casing Shoe=	psi *Assumes 1psi/ft frac gradient		

#### 43013500020000 Moon 4-20-4-2



Well name:

43013500020000 Moon 4-20-4-2

Operator:

HARVEST (US) HOLDINGS, INC

String type:

Surface

Project ID:

Location:

**DUCHESNE** COUNTY 43-013-50002

Design parameters:

**Collapse** 

8.300 ppg Mud weight: Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125 **Environment:** 

H2S considered? Surface temperature: No 74 °F 82 °F

Bottom hole temperature: Temperature gradient:

1.40 °F/100ft

Minimum section length:

100 ft

**Burst:** 

Design factor

Cement top:

160 ft

**Burst** 

Max anticipated surface

528 psi pressure: Internal gradient: 0.120 psi/ft Calculated BHP

600 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J) 8 Round LTC: 1.70 (J) 1.60 (J) **Buttress:** 1.50 (J)

1.50 (B)

Premium: Body yield:

Tension is based on air weight. Neutral point: 525 ft Non-directional string.

Re subsequent strings:

Next setting depth: Next mud weight: Next setting BHP:

8.400 ppg 2,880 psi 19.250 ppg

Fracture mud wt: Fracture depth: Injection pressure:

600 ft 600 psi

6,600 ft

Run	Segment		Nominal	over a management of a content of the state	End	True Vert	Measured	Drift	Est.
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Cost (\$)
1	600	8.625	24.00	J-55	ST&C	600	600	7.972	3089
Run Seq	Collapse Load	Collapse Strength	Collapse Design	Burst Load	Burst Strength	Burst Design Factor	Tension Load	Tension Strength	Tension Design Factor
1	<b>(psi)</b> 259	<b>(psi)</b> 1370	Factor 5.296	<b>(psi)</b> 600	<b>(psi)</b> 2950	4.92	(kips) 14.4	(kips) 244	16.94 J

Prepared

Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: March 3,2009 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 600 ft, a mud weight of 8.3 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

43013500020000 Moon 4-20-4-2 Well name:

HARVEST (US) HOLDINGS, INC Operator:

String type: Production Project ID: 43-013-50002

COUNTY **DUCHESNE** Location:

Design parameters:

Collapse

Mud weight: 8.400 ppg Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125 **Environment:** 

H2S considered? No Surface temperature: 74 °F Bottom hole temperature: 166 °F

1.40 °F/100ft Temperature gradient:

Minimum section length:

100 ft

**Burst:** 

1.00 Design factor

Cement top:

1,334 ft

**Burst** 

Max anticipated surface

pressure: Internal gradient: Calculated BHP

1,428 psi 0.220 psi/ft 2,880 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J) 1.80 (J) 8 Round LTC: **Buttress:** 1.60 (J)

Premium: 1.50 (J) Body yield: 1.60 (B)

Tension is based on air weight. Neutral point: 5,761 ft Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)	
1	6600	5.5	15.50	J-55	LT&C	6600	6600	4.825	23304	
Run Seq	Collapse Load (psi) 2880	Collapse Strength (psi) 4040	Collapse Design Factor 1.403	Burst Load (psi) 2880	Burst Strength (psi) 4810	Burst Design Factor 1.67	Tension Load (kips) 102.3	Tension Strength (kips) 217	Tension Design Factor 2.12 J	

Prepared

Helen Sadik-Macdonald

Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: March 3,2009 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6600 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

#### **ON-SITE PREDRILL EVALUATION**

#### Utah Division of Oil, Gas and Mining

Operator HARVEST (US) HOLDINGS, INC

Well Name Moon 4-20-4-2

API Number 43013500020000 APD No 1240 Field/Unit UNDESIGNATED

Location: 1/4,1/4 NESW Sec 20 Tw 4.0S Rng 2.0W 2131 FSL 1842 FWL GPS Coord (UTM) Surface Owner Moon Ranch, LLC

#### **Participants**

Floyd Bartlett (DOGM), Joseph Schmid (Harvest Holdings Drilling/ Production Superintendent) and Terry Hoffman (Rocky Mountain Permitting, LLC; Agent for Harvest Holdings. INC)

#### Regional/Local Setting & Topography

Amended APD (10-21-2009). Harvest (US) Holdings, INC has entered into an agreement with Newfield Production Company to Drill and operate this well. Newfield will complete the drilling using an open mud circulation system with a reserve pit. The Location Layout sheet is amended to include a reserve pit 40' x 80' x 8' deep located 34 feet south of the well-head. The pit will be lined with a 16-mil liner and a felt sub-liner as needed to cushion the liner.

The general area is approximately 7 road miles southwest of Myton, Duchesne County, UT in the middle Pleasant Valley Wash area. Pleasant Valley Wash is an ephemeral drainage, which joins Pariette Draw drainage. The drainage shows no signs of recent significant flows. Pariette Draw runs into the Green River approximately 6 miles downstream from Ouray, Utah and about 11 miles downstream from the location. The area is above the agricultural lands of Pleasant Valley. Broad flats intersected by swales with gentle to moderate side slopes characterize topography. Access is by State and County and planned oil field development roads. Slightly over 0.1 miles of new construction across Moon's private land will be required to reach the location.

The proposed Moon 4-20-4-2 oil well location is immediately northwest of Pleasant Valley Wash and also west of the Nine Mile Road. The area is relatively flat with a very slight slope to the northeast. A slight swale is located southwest of the proposed pad. No drainages intersect the location and no diversions are needed. A berm is planned around the edge of the pad. No springs, streams, seeps or ponds are known to exist in the immediate area. The selected site appears to be a good location for constructing a pad, drilling and operating a well.

Moon Ranches own the surface of the location. The minerals are also privately owned. Mr. Gordonl Moon was invited to the pre-site visit but was not able to attend. A signed landowner agreement exists.

#### **Surface Use Plan**

**Current Surface Use** 

Grazing

Wildlfe Habitat

New Road
Miles

Well Pad

Src Const Material

Surface Formation

0.1 Width 250 Length 315 Onsite UNTA

**Ancillary Facilities** N

#### Waste Management Plan Adequate?

#### **Environmental Parameters**

10/29/2009 Page 1

#### Affected Floodplains and/or Wetlands N

#### Flora / Fauna

Vegetation on the area is a desert shrub type. Approximately 4 inches of snow covered most of the site. Identifiable vegetation included halogeton, horsebrush, cheatgrass, , Indian ricegrass, globe mallow, mat saltbrush, shadscale, curly mesquite, rabbit brush and spring annuals.

MEIDENTIAL

Antelope, deer, prairie dogs, small mammals and birds.

#### **Soil Type and Characteristics**

Deep sandy gravely loam.

**Erosion Issues** N

**Sedimentation Issues** N

Site Stability Issues N

**Drainage Diverson Required?** 

Berm Required? Y

Operator proposes to berm the exterior on the location.

**Erosion Sedimentation Control Required?** N

Paleo Survey Run? N Paleo Potental Observed? Cultural Survey Run? N Cultural Resources?

#### **Reserve Pit**

Site-Specific Factors	Site Ra	nking	
Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	300 to 1320	10	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
<b>Annual Precipitation (inches)</b>		0	
Affected Populations			
<b>Presence Nearby Utility Conduits</b>	Not Present	0	
	Final Score	30	1 Sensitivity Level

#### **Characteristics / Requirements**

Amended APD (10-21-2009). Harvest (US) Holdings, INC has entered into an agreement with Newfield Production Company to Drill and operate this well. Newfield will complete the drilling using an open mud circulation system with a reserve pit. The Location Layout sheet is amended to include a reserve pit 40' x 80' x 8' deep located 34 feet south of the well-head. The pit will be lined with a 16-mil liner and a felt sub-liner as needed to cushion the liner.

10/29/2009 Page 2

#### Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required?

#### **Other Observations / Comments**

Amended APD (10-21-2009).

Floyd Bartlett **Evaluator** 

1/15/2009

Date / Time

CONFIDENTIAL

10/29/2009 Page 3

10/29/2009

#### **Application for Permit to Drill Statement of Basis**

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	<b>Surf Owner</b>	CBM
1240	43013500020000	LOCKED	OW	P	No
Operator	HARVEST (US) HOLDINGS	, INC	<b>Surface Owner-APD</b>	Moon Ranch,	LLC
Well Name	Moon 4-20-4-2		Unit		
Field	UNDESIGNATED		Type of Work	DRILL	

NESW 20 4S 2W U 2131 FSL 1842 FWL GPS Coord (UTM) 573677E 4441120N Location

#### **Geologic Statement of Basis**

Harvest proposes to set 300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 400'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Surface casing should be extended to cover the estimated base of the moderately saline ground water.

> **Brad Hill** 1/22/2009 Date / Time **APD Evaluator**

#### **Surface Statement of Basis**

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1/15/2009

Floyd Bartlett Date / Time **Onsite Evaluator** 

Conditions of Approval / Application for Permit to Drill

Category Condition 10/29/2009

## **Application for Permit to Drill Statement of Basis**

#### **Utah Division of Oil, Gas and Mining**

Pits A synthetic liner with a minimum thickness of 16 mils with a felt subliner as needed shall be properly installed and maintained in the reserve pit.

Surface The well site shall be bermed to prevent fluids from leaving the pad.

Surface The reserve pit shall be fenced upon completion of drilling operations.



Page 2

### WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED:	12/29/2008		API NO. ASSIGNED:	43013500020000					
WELL NAME:	Moon 4-20-4-2								
OPERATOR:	HARVEST (US) HOLD	INGS, INC (N3520)	PHONE NUMBER:	303 250-0619					
CONTACT:	Terry Hoffman								
PROPOSED LOCATION:	NESW 20 040S 020W	v	Permit Tech Review:						
SURFACE:	2131 FSL 1842 FWL		Engineering Review:						
воттом:	2131 FSL 1842 FWL	DEA	Geology Review:						
COUNTY:	DUCHESNE								
LATITUDE:	40.11906		LONGITUDE:	-110.13539					
UTM SURF EASTINGS:	573677.00		NORTHINGS:	4441120.00					
FIELD NAME:	UNDESIGNATED								
LEASE TYPE:									
LEASE NUMBER:	Fee <b>PROPOS</b>	SED PRODUCING FORMA	TION(S): GREEN RIVER						
SURFACE OWNER:	4 - Fee		COALBED METHANE:	NO					
RECEIVED AND/OR REVIEW	ED:	LOCATION AND SITING:	1						
<u></u> PLAT		R649-2-3.							
<b>▶ Bond:</b> STATE/FEE - B0046	557	Unit:							
Potash		R649-3-2. General							
Oil Shale 190-5									
Oil Shale 190-3		R649-3-3. Exceptio	n						
Oil Shale 190-13		✓ Drilling Unit							
<b>✓ Water Permit:</b> Neil Moon	Pond	Board Cause No:	Cause 266-01						
RDCC Review:		Effective Date: 5/	5/2009						
<b>▶</b> Fee Surface Agreement		Siting: 460' fr drl u	u bdry & 920' fr other wells						
Intent to Commingle		R649-3-11. Direction	onal Drill						
Commingling Approved									
Comments: Presite Completed									

**Stipulations:** 5 - Statement of Basis - bhill 25 - Surface Casing - hmacdonald

API Well No: 43013500020000



Lieutenant Governor

#### State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA

#### Permit To Drill

\*\*\*\*\*\*

**Well Name:** Moon 4-20-4-2 **API Well Number:** 43013500020000

Lease Number: Fee

**Surface Owner:** FEE (PRIVATE) **Approval Date:** 10/29/2009

#### **Issued to:**

HARVEST (US) HOLDINGS, INC, 1177 Enclave Parkway, Houston, TX 77077

#### **Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 266-01. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

#### **Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels OR

API Well No: 43013500020000

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://oilgas.ogm.utah.gov

- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

#### **Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 office
- Dustin Doucet 801-538-5281 office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-942-0871 - after office hours

#### **Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

**Approved By:** 

Gil Hunt

Associate Director, Oil & Gas

Die Hunt

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	W	ELL!	COM	PLETIC	ON OR R	RECOMPLE	TION R	EPORT	AND L	OG			5. L		rial No.	
la. Type of	Well	<b>V</b> (	Oil Wel	i N	Gas Well	Dry L	Other						6. If	Indian,	Allottee or	Tribe Name
b. Type of	Completion	n: 🔽 1	New We	ell 🗖	Work Over	Deepen D	Plug Bacl	k 🗖 Dif	ff. Resvr.,					7. Unit or CA Agreement Name and No.		
Other:											8 L	ease Na	me and Wel	No.		
Name of Operator     NEWFIELD EXPLORATION COMPANY     Address     Ja. Phone No. (include area code)											MO	MOON 4-20-4-2				
3. Address	1401 17TH	ST. SUIT	E 1000 I	DENVER,	CO 80202			3a. Phone (435)646		ide arei	a code	,		FI Well 13-50		
4. Location	of Well (R	eport la	cation	clearly ar	nd in accord	lance with Feder	al requirem	nents)*							d Pool or Ex NT BUTTE	
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	21011	0	042 (	*** (***	,OW, OEG	7. 20, 140, NZ	••						S	Survey o	or Area SEC	. 20, T4S, R2W
At top pro	od. interval:	reported	i below												or Parish	13. State
3	41-												DUC	CHESN	ΝE	UT
At total de 14. Date Sp	udded				.D. Reached	d	16.	Date Com					17. I	Elevatio	ns (DF, RK	B, RT, GL)*
02/05/201 18. Total D		687		02/23/20		ig Back T.D.:	MD 6827	<u> </u>				idge Plug		3' GL 8 MD	5420' KB	
	TV	D	_				TVD				•	cored?		TVD	Yes (Submi	t analysis)
21. Type E						oy of each) EUTRON,GR,(	CALIPER	CMT BO	- 1	W	as DST	run?	Z N	。 🗖	Yes (Submi	t report)
23. Casing										Di	rection	al Survey	<b>7</b> N	∘_□	Yes (Submi	t copy)
Hole Size	Size/Gra		Wt. (#/f		op (MD)	Bottom (MD		Cementer Depth	No. o	of Sks.		Slurry (BB		Cem	ent Top*	Amount Pulled
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7-7/8"	5-1/2" J		15.5#	0		6857'			320 PR		MLITE					
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Size 2-7/8"	EOT@	Set (MI 0 6572		acker Dep @ 6474		Size	Deptit	Set (MD)	racket D	cpm (n	VID)	JIZ.		Бор	in bet (MB)	Tuesco: Dopen (MB)
25: Produci	ng Intervals	3				D-44		Perforation erforated In		48		i70	No. L	Inles	1	Perf. Status
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B) Green							5864-6	6147' A3	LODC		.34"		3		72	
C) Green	River							5616' B.5			.34"		3		18	
D) Green 27. Acid, Fr			Comoni	Causaga			5361-5	5382' D1			.34"		3		27	
	Depth Inter		Cemen	Squeeze	, etc.				Amount a	nd Typ	e of M	aterial				
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5610-5616 5361-5382			-			20/40 sand in										
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Size	Flwg. SI	Press.	Rat	ie	BBL	MCF	BBL	Ratio		PR	ODU	UING				
28a. Produc	tion Yuto-	ml P														
Date First	Test Date	Hours	Tes		Oil	1	Water	Oil Gra		Gas		Prod	iction M	ethod		
Produced		Tested	Pro	duction	BBL	MCF	BBL	Corr. A	PI	Grav	vity					
Choke	Tbg. Press.	Cea	24	Hr	Oil	Gas	Water	Gas/Oil		Wel	1 Statu	s		<u> </u>	···	
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20h Brod	uction - Inte	rval C								
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Produced		Tested	Production	BBL	MCF	BBL	Corr. API	Gravity		
Choke	Tbg. Press.	Csg.	24 Hr.	Oil	Gas	Water	Gas/Oil	Well Status		
Size	Flwg.	Press.	Rate	BBL	MCF	BBL	Ratio			
	SI		<b>—</b>							
28c. Prod Date First	uction - Inte	rval D Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced	Test Date	Tested	Production	BBL	MCF	BBL	Corr. API	Gravity		
						117	0/01	Well Status		
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status		
	SI		<b>→</b>							
29. Dispo	sition of Ga	s (Solid, u	sed for fuel, ve	ented, etc.,	)	<u>.</u>				
USED FOR								Tar n	·	
,			(Include Aqu					31. Formati	ion (Log) Markers	
Show a	all important	t zones of	porosity and c	ontents th	ereof: Cored	intervals and aling and shut-in	ll drill-stem tests,	GEOLOG	ICAL MARKERS	
recove		eivai test	eu, casmon as	ou, time to	or open, now	ing and shar in	prosperso			
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Forr	nation	Тор	Bottom		Des	criptions, Cont	ents, etc.		Name	Meas. Depth
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								GARDEN GU		4524'
								GARDEN GL	JLCH 2	4650' 4950'
								POINT 3		
				:				X MRKR Y MRKR		5188' 5216'
								DOUGALS C	CREEK MRK	5328'
								BI CARBON	ATE MRK	5583'
								B LIMESTON CASTLE PE		5713' 6311'
								BASAL CARI		6691'
								WASATCH	BONATE	6822'
			e plugging pro		4401 04110	/10 From W	d 20504#1c of 201	40 cand in 253	bbls of Lightning 17 fluid	
J			nation (PB8)							es. A.d
Stage 6:	Green R	iver Forr	nation (GB4	GB6) 4	837-4911', .	34" 3/30 F	rac w/ 42862#'s	of 20/40 sand i	n 271 bbls of Lightning 17	nuia
.: -										
33. Indica	ate which ite	ms have	been attached	y placing	a check in the	e appropriate b	oxes:		_	
☐ Ele	ctrical/Mech	anical Log	s (1 full set req	'd.)		Geologic Repo			☐ Directional Survey	
			g and cement v			Core Analysis		:: Drilling Daily		
						mplete and cort			records (see attached instruction	ns)*
N	Iame <i>(please</i>	print) L	ucy Chavez-	Naupoto	200	<del></del>		strative Assista	nt	
S	ignature	Lee	1 C	~ , J	1/20	_	Date 06/08/20	)10		
		$\longrightarrow$	<del></del>	1	/			1	a make to any department or co	ency of the United States any
Title 18 U	S.C. Section	n 1001 ar	nd Title 43 U.S	.C. Section	n 1212, make ns as to any n	it a crime for a natter within its	any person knowing s jurisdiction.	iy and willfully to	o make to any department or ag	oney of the Office States ally

#### **Daily Activity Report**

Format For Sundry MOON 4-20-4-2 12/1/2009 To 4/28/2010

MOON 4-20-4-2

**Waiting on Cement** 

**Date:** 2/13/2010

Ross #21 at 630. Days Since Spud - On 2/14/10 R/U BJ cmt with 331sks class G cmt + 2 % calcium cloride + .25# sk celloflake mixed @ - Drill mouse and rat hole - On 2/5/10 Spud @ 9:00 am drill to 630' P/U and run 14 jts 8 5/8" J-55 24# STC csg set @ 629.01' KB - On 2/4/10 notify Blm and state of spud @ 9:00 am & csg @ 16:00 on 2/5/10. - 15.8 ppg return 10 bbls to pit

Daily Cost: \$0

**Cumulative Cost:** \$61,497

MOON 4-20-4-2

Rigging down

**Date:** 2/18/2010

NDSI #1 at 630. 0 Days Since Spud - Tear down and prepare for field rig move

Daily Cost: \$0

**Cumulative Cost:** \$64,134

#### MOON 4-20-4-2

#### Drill 7 7/8" hole with fresh water

**Date:** 2/19/2010

NDSI #1 at 781. 1 Days Since Spud - Install Pason line reader on crown - Drill 7 7/8" hole f/718 to781' -WOB 10, total RPM 138,GPM 352, ROP 114 - Install rotating rubber - Drill 7 7/8" hole f/605 to 718' -WOB 10, total RPM 138,GPM 352, ROP 113 - Fix compound chain in DW - Drill 7 7/8" hole f/575 to 605' -WOB 10, total RPM 134,GPM 352, - P/U Kelly and gain circulation - 1X hang off sub 2.06' and 21 6" DC 677.64'. Tag @ 575' - P/U Sec FMH655zm 7 7/8" PDC bit, Protech 7/8 5 M.M. 1.5°, Extreme Tools 1x Monel collar 30.61' - Wait on Extreme MWD hand - Surface csg @ 1500 psi 30 min test good. - R/U B&C Quicktest - Test kelly,safty valve,choke,pipe and blind rams. High presser @ 2000 Psi 10 Min - MIRU w/Jones Trucking set All equipment ( 9 mile rig move from the Roberts 4-19-4-1) - on 2/17/10 noifiy BLM and State of Rig move @ 7:00 and BOP test @ 13:00 on 2/18/10

Daily Cost: \$0

Cumulative Cost: \$88,050

#### **MOON 4-20-4-2**

#### Drill 7 7/8" hole with fresh water

**Date:** 2/20/2010

NDSI #1 at 2812. 2 Days Since Spud - Drill 7 7/8" hole f/1686' to 2812' -WOB 15, total RPM 160,GPM 352, ROP 88 - Drill 7 7/8" hole f/781 to 1686' -WOB 12, total RPM 160,GPM 352, ROP 129.2 - Rig service funtion test pipe rams and crownomatic- no flow

Daily Cost: \$0

Cumulative Cost: \$143,125

#### MOON 4-20-4-2

#### Drill 7 7/8" hole with fresh water

**Date:** 2/21/2010

NDSI #1 at 4411. 3 Days Since Spud - Drill 7 7/8" hole F-2812 to 3441' w/15K WOB, TRPM-119, GPM-352, Avg ROP-90 ft/hr - Drill 7 7/8" hole F-3441' to 3536' w/ 15K WOB, TRPM-119, GPM-352, Avg ROP-48 ft/hr - Drill 7 7/8" hole F-3536 to 4411' w/ 15K WOB, TRPM-119, GPM-352, Avg ROP-67 ft/hr - NO H2S reported in last 24 hours/ No flow - Work on kelly spinners, - Rig Service, check crownomatic and BOP

Daily Cost: \$0

Cumulative Cost: \$158,647

#### MOON 4-20-4-2

#### Drill 7 7/8" hole with fresh water

**Date:** 2/22/2010

NDSI #1 at 6036. 4 Days Since Spud - No H2S or Flow in last 24 hours - Slid @4755-4770',and another slid around 5150 , 15 ft. - Drill 7 7/8" hole F/4411' to 4849' w/ 18K-WOB, TRPM-119, GPM-352, Avg ROP-80 ft/hr - Drill 7 7/8" hole F/4849' to 6036' w/ 18K-WOB, TRPM-119, GPM-352, Avg ROP-66 ft/hr - Rig Service, function test BOP and Crownomatic

Daily Cost: \$0

Cumulative Cost: \$181,719

#### MOON 4-20-4-2

#### **Waiting on Cement**

**Date:** 2/23/2010

NDSI #1 at 6875. 6 Days Since Spud - Drill 7 7/8" hole F/6036 to 6397' w/ 20K WOB, TRPM-125,GPM-338, Avg ROP 66 ft/hr - Rig service, function test crownomatic and BOP - Drill 7 7/8" hole F/ 6397' to 6875' TD,w/23K WOB,TRPM-125,GPM-338,Avg ROP 40 ft/hr - Circulate& condition hole to lay down for logs. Check flow = NO FLOW - Lay down drill pipe and BHA - No H2S or flow reported in last 24 hours - Had to slide quite a bit last 450 feet, waiting on slide report to get depths - Lay down drill pipe and BHA - R/U PSI & run triple combo(density porosity, resistivity, gamma ray) from loggers TD=6872' to Surface - Change rams to 5 1/2", R/U B&C Quicktest and test to 2000# for 10 minutes - R/U QT Casing and run 161 its 5.5" J-55 LTC, shoe set @ 6856.66', top of float @6842.61' and top of - short jt. @ 4663.51', transfer 5 jts (216.1') to State 15-36-8-15. - R/U BJ head test to 3500# and circulate casing -Pump 10bbls dye,20 bbls mud clean, 20 bbls fresh , 199 bbls (320 sks) lead cement @ 11ppg &3.53yield - (PL II+3% KCL+5#CSE+.5#CF+.5SMS+FP+SF)pumped 99 bbls(450 sks) tail @ 14.4ppg & 1.24 yield - (50:50 Poz+3 % KCL+.5%EC-1+.25#CF+.3SMS+FP) displaced w/ 163 bbls of fresh water - Returned 25 bbls back to pit, bumped plug to 514 psi. BLM and State were notified - Nipple down and set 5 1/2" casing slips w/ 101,000# tension - Clean mud tanks - Release rig @ 2230 on2-23-10 - slid 38 ft around 6400' - Drill 7 7/8" hole F/6036 to 6397' w/ 20K WOB, TRPM-125, GPM-338, Avg ROP 66 ft/hr - Rig service, function test crownomatic and BOP - Drill 7 7/8" hole F/ 6397' to 6875' TD,w/23K WOB,TRPM-125,GPM-338, Avg ROP 40 ft/hr - Circulate& condition hole to lay down for logs. Check flow = NO FLOW - Lay down drill pipe and BHA - No H2S or flow reported in last 24 hours - Had to slide quite a bit last 450 feet, waiting on slide report to get depths - Lay down drill pipe and BHA - R/U PSI & run triple combo(density porosity, resistivity, gamma ray) from loggers TD=6872' to Surface - Change rams to 5 1/2", R/U B&C Quicktest and test to 2000# for 10 minutes - R/U QT Casing and run 161 its 5.5" J-55 LTC, shoe set @ 6856.66', top of float @6842.61' and top of - short jt. @ 4663.51', transfer 5 jts (216.1') to State 15-36-8-15. - R/U BJ head test to 3500# and circulate casing - Pump 10bbls dye,20 bbls mud clean, 20 bbls fresh , 199 bbls (320 sks) lead cement @ 11ppg &3.53yield - (PL II+3% KCL+5#CSE+.5#CF+.5SMS+FP+SF) pumped 99 bbls(450 sks) tail @ 14.4ppg & 1.24 yield - (50:50 Poz+3 % KCL+.5%EC-1+.25#CF+.3SMS+FP) displaced w/ 163 bbls of fresh water - Returned 25 bbls back to pit, bumped plug to 514 psi. BLM and State were notified - Nipple down and set 5 1/2" casing slips w/ 101,000# tension - Clean mud tanks - Release rig @ 2230 on2-23-10 - slid 38 ft around 6400' Finalized

Daily Cost: \$0

Cumulative Cost: \$326,095

Pertinent Files: Go to File List

STATE OF UTAH											
	DEPARTMENT OF NATURAL RI DIVISION OF OIL, GAS AND			5. LEASE DESIGNATION AND SERIAL NUMBER: FEE							
SUNDRY	NOTICES AND REPO	RTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:							
Do not use this form for proposals to dri wells, or to drill horizont	7. UNIT or CA AGREEMENT NAME:										
I. TYPE OF WELL: OIL WELL				8. WELL NAME and NUMBER: MOON 4-20-4-2							
2. NAME OF OPERATOR:	9. API NUMBER:										
NEWFIELD PRODUCTION COM	4301350002										
3. ADDRESS OF OPERATOR:		84052	PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT: MYTON/TRIBAL EDA							
Route 3 Box 3630  4. LOCATION OF WELL:	CITY Myton STATE UT	ZIP 84052	435.646.3721	M I TOW TRIBAL EDA							
FOOTAGES AT SURFACE: 2/31	FSL 1842 FWL			COUNTY: DUCHESNE							
OTR/OTR. SECTION. TOWNSHIP. RANGE.	MERIDIAN: NESW, 20, T4S, R2W			STATE: UT							
CHECK APPROI	PRIATE BOXES TO INDICATE	E NATURE	OF NOTICE, REPO	ORT, OR OTHER DATA							
TYPE OF SUBMISSION			PE OF ACTION								
TITE OF BODIMOSTOTY	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION							
☐ NOTICE OF INTENT		FRACTURE	TDEAT	SIDETRACK TO REPAIR WELL							
(Submit in Duplicate)	ALTER CASING	_									
Approximate date work will	CASING REPAIR	NEW CONST		TEMPORARITLY ABANDON							
	CHANGE TO PREVIOUS PLANS	OPERATOR	CHANGE	TUBING REPAIR							
	CHANGE TUBING	PLUG AND	ABANDON	VENT OR FLAIR							
X SUBSEQUENT REPORT	CHANGE WELL NAME	☐ PLUG BACK	ζ	WATER DISPOSAL							
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTIO	ON (START/STOP)	WATER SHUT-OFF							
Date of Work Completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMAT	TION OF WELL SITE	OTHER: - Weekly Status Report							
05/13/2010	CONVERT WELL TYPE	RECOMPLE	TE - DIFFERENT FORMATION	<del></del>							
	OMPLETED OPERATIONS. Clearly show a			volumes etc							
				, oranies, eve.							
The above subject well wa	s completed on 05/13/10, attached is	s a daily comp	pletion status report.								

(This space for State use only)

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

RECEIVED
JUN 1 4 2010

TITLE Administrative Assistant

DATE\_\_\_06/08/2010

#### **Daily Activity Report**

#### Format For Sundry MOON 4-20-4-2 1/1/2010 To 5/30/2010

3/1/2010 Day: 1

Completion

Rigless on 3/1/2010 - Run CBL & shoot first stage. 163 BWTR. - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6801' cement top @ 30'. Perforate CP4/CP.5 sds as shown in perforation report. 163 BWTR. SWIFN.

Daily Cost: \$0

**Cumulative Cost:** \$12,432

3/4/2010 Day: 2

Completion

Rigless on 3/4/2010 - Frac 1st stage & perforate stage 2 - Frac 1st stage & perforate 2nd stage.

Daily Cost: \$0

Cumulative Cost: \$12,432

3/5/2010 Day: 3

Completion

Rigless on 3/5/2010 - Frac, perforate & flow well. - Frac & perforate remaining 5 stages. 4278 BWTR. Open well for immediate flowback @ approx 3 BPM. Well flowed for 4 hours & turned to oil. Recovered 576 bbls. SWIFN. 3702 BWTR.

Daily Cost: \$0

**Cumulative Cost:** \$159,589

3/8/2010 Day: 4

Completion

WWS #3 on 3/8/2010 - MIRU WWS #3. Set kill plug. PU tbg & drill out kill plug. - Check pressure on well, 810 psi. MIRU WWS #3. RU hot oil truck & pump 7 BW down csg @ 225°. RU Perforators WLT. RIH w/ 6K solid composite plug & tag fill @ 4737'. Set plug @ 4710'. POOH & RD WLT. Bleed pressure off well. ND frac BOPs & frac head. NU production WH & BOPs. RU rig floor. Talley & PU new 4 3/4" chomp bit, bit sub & 2 7/8" tbg. Tag plug @ 4710', RU power swivel, drill out plug in 20 min. Circulate well for 2 hours attempting to clean up. RU to flow into tanks. Turn over to flowback hand @ 6:00 PM. 3309 BWTR.

Daily Cost: \$0

**Cumulative Cost:** \$170,565

3/9/2010 Day: 5

Completion

WWS #3 on 3/9/2010 - Drill out plugs - Check pressure on well, 850 psi tbg & 1050 psi csg. Bleed pressure off well. Circulate well until workable. Continue PU & TIH w/ tbg. Tag plug @ 4961', drill out plug in 13 min. Continue PU tbg & tag plug @ 5162'. Drill out plug in 15 min. Continue PU tbg & tag plug @ 5432'. Drill out plug in 19 min. Continue PU tbg & tag plug @ 5665'. Drill out plug in 20 min. Continue PU tbg & tag fill @ 5979'. Wait 2 1/2 hours for water. Pump 100 bbls to get circulation. Clean out 59' of fill to 5920'. Circulate well clean, poor circulation. Circulate for 1 1/2 hours, no sand in returns. Reverse circulate well, unable to circulate sand. Pump down tbg & clean out to 6093'. Circulate well for 2 1/2 hours to wash

sand up. TOOH w/ 8- jts tbg. EOT @ 5834'. SWIFN. 3979 BWTR.

Daily Cost: \$0

Cumulative Cost: \$209,348

#### 3/10/2010 Day: 6

Completion

WWS #3 on 3/10/2010 - Drill out plug, clean out to PBTD. Swab for clean up. - Check pressure on well, 0 psi. Tag fill @ 6093'. RU power swivel & Superior pump truck. Clean out 112' of fill to plug @ 6205'. Drill out plug in 20 min. Continue PU tbg, TIH & tag fill @ 6684'. Clean out 158' of fill to PBTD @ 6842'. Circulate well clean. RD power swivel. RD Superior pump truck. LD 3- jts tbg & place EOT @ 6748'. RU swab equipment. Made 18 swab runs w/ SFL @ 500' & EFL @ 900'. Recovered 290 bbls ending w/ no show of sand & trace of oil. SWIFN. 4159 BWTR.

**Daily Cost:** \$0

Cumulative Cost: \$216,673

#### 3/11/2010 Day: 7

Completion

WWS #3 on 3/11/2010 - Round trip tbg & PU rods. PWOP. - Check pressure on well, 130 psi tbg & csg. Bleed pressure off well. TIH w/ tbg & tag fill @ 6827' (15' of new fill). LD tbg not needed for production string. TOOH w/ tbg & LD bit sub & bit. TIH w/ production tbg as detailed. RD rig floor. ND BOPs. Set TA @ 6474' w/ 18,000#s tension. NU wellhead. X-over for rods. Flush tbg w/ 60 BW. PU & prime Central Hydraulic 2 1/2" X 1 1/2" X 20' 40 ring pump. PU & TIH w/ rods as detailed. RU pumping unit. Fill tbg w/ 1 BW, stoke test pump w/ unit to 800 psi. RDMOSU. Left well shut in due to over run battery. 4254 BWTR. **Finalized** 

Daily Cost: \$0

**Cumulative Cost: \$264,168** 

Pertinent Files: Go to File List

SUNDRY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for proposals to di wells, or to drill horizon	7. UNIT or CA AGREEMENT NAME:				
1. TYPE OF WELL: OIL WELL	8. WELL NAME and NUMBER:				
	GAS WELL OTHER		MOON 4-20-4-2  9. API NUMBER:		
2. NAME OF OPERATOR:	(DANK)		9. API NOMBER: 4301350002		
NEWFIELD PRODUCTION COM 3. ADDRESS OF OPERATOR:	MPANY	PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:		
Route 3 Box 3630	CITY Myton STATE UT	ZIP 84052 435.646.3721	MONUMENT BUTTE		
4. LOCATION OF WELL:			<del></del>		
FOOTAGES AT SURFACE:			COUNTY: DUCHESNE		
OTR/OTR. SECTION. TOWNSHIP. RANGE	MERIDIAN: NESW, 20, T4S, R2W		STATE: UT		
CHECK APPRO	PRIATE BOXES TO INDICATI	E NATURE OF NOTICE, REF	ORT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION		
NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL		
,	CASING REPAIR	NEW CONSTRUCTION	TEMPORARITLY ABANDON		
Approximate date work will	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR		
		PLUG AND ABANDON	VENT OR FLAIR		
	CHANGE TUBING	=			
X SUBSEOUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL		
Date of Work Completion:	CHANGE WELL STATUS	PRODUCTION (START/STOP)	WATER SHUT-OFF		
Date of work Completion:	COMMINGLE PRODUCING FORMATIONS	COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE			
02/15/2010	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	1		
On 2/5/10 MIRU Ross # 2	OMPLETED OPERATIONS. Clearly show a 1. Spud well @ 9:00 am. Drill 630' of ment with 331 sks of class "G" w/ 29 to pit. WOC.	f 12 1/4" hole with air mist. TIH W/	14 Jt's 8 5/8" J-55 24 # csgn. Set @		
			CEIVED		
		M	AR 0 1 2010		
		DIV. OF (	DIL, GAS & MINING		
NAME (PLEASE PRINT) Jim Smith	Mr has Nins Om	TITLE Drilling Foreman			

(This space for State use only)

#### NEWFIELD PRODUCTION COMPANY - CASING & EMENT REPORT

8 5/8" CASING SET AT 629.01

LAST CASING SET AT	OPERATOR Newfield Exploration Company
DATUM12	WELL MOON 4-20-4-2
DATUM TO CUT OFF CASING 12	FIELD/PROSPECT MB
DATUM TO BRADENHEAD FLANGE 12	CONTRACTOR & RIG# Ross # 21
TD DRILLER 630 LOGGER	

12 1/4"

HOLE SIZE

U 00 05 04 01 N	O OTDINO							· · · · · · · · · · · · · · · · · · ·	
LOG OF CASING	OD OD	I ITEM - M	AKE - DESC	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
1	"	Guide shoe						А	0.9
1		WH						A	0.95
1	8 5/8"	Shoe jt			24	J-55	STC	Α	44.57
13	8 5/8"	Csg			24	J-55	STC	А	572.59
					-				
						*			
					ļ				
					<u> </u>				
<del></del>									
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING 6				619.01	
TOTAL LENGTH OF STRING		619.01	14	LESS CUT OFF PIECE					
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12		
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH6			629.01		
TOTAL		617.16	14	$\Big]_{\gamma}$					
TOTAL CSG. DEL. (W/O THRDS)		617.16	14	☐ } COMPARE					
-	TIMING								
BEGIN RUN CSG. Spud		9:00 AM	2/5/2010	GOOD CIRC THRU JOB					
CSG. IN HOLE		8:00 AM	2/6/2010	Bbls CMT CIRC TO SURFACE 10					
BEGIN CIRC		8:30 AM	2/14/2010	RECIPRO	CATED PIF	No_No			
BEGIN PUMP CMT		8:42 AM	2/14/2010						
BEGIN DSPL. CMT		8:59 AM	2/14/2010		PLUG TO _	220			
PLUG DOWN			9:12 AM	2/14/2010					

CEMENT USED		СЕМ	ENT COMPANY-	BJ	
STAGE	# SX	# SX CEMENT TYPE & ADDITIVES			
1	331	class g cmt +2% calcium chloride +.25 # cello flake			
	<u> </u>				
_					
CENTRALIZER & SCRATCHER PLACEMENT				SHOW MAKE & SPACING	
Middle first top	of first top	of second for a total of thre	ee.		

DATE **2/14/2010** 

COMPANY REPRESENTATIVE Jim Smith

DIVISION OF OIL, GAS AND MINING **ENTITY ACTION FORM -FORM 6**  OPERATOR: NEWFIELD PRODUCTION COMPANY ADDRESS: RT. 3 BOX 3630

**MYTON, UT 84052** 

OPERATOR ACCT. NO. N2695

ACTION CURRENT ENTITY NO NEW API NUMBER WELL NAME WELL LOCATION ENTITY NO. SPUD EFFECTIVE COUNTY **BELUGA FEDERAL** В 99999 17400 4301334087 (-<del>1</del>-17-9-17 NWNW 98 17 17E **DUCHESNE** 2/10/2010 WELL 1 COMMENTS: BHL= NWNW ACTION CURRENT NEW API NUMBER WELL LOCATION CODE SPUD **ENTITY NO** ENTITY NO. EFFECTIVE QQ sc TP COUNTY DATE DATE 7522 Α 99999 4301350002 MOON 4-20-4-2 **NESW** 20 48 2W **DUCHESNE** GRRV ACTION CURRENT ENTITY NO. NEW ENTITY NO. API NUMBER WELL NAME WELL LOCATION TP | RG SPUD **EFFECTIVE** QQ COUNTY 17523 Α 99999 4301350191 **KIEPE 8-24-4-2** SENE 24 48 2W DUCHESNE 2/9/2010 GRRV ACTION CURRENT ENTITY NO NEW API NUMBER WELL NAME CODE ENTITY NO WELL LOCATION SPUD EFFECTIVE QQ SC COUNTY В 99999 17400 4301334156 **BELUGA FEDERAL D-18-9-17** swsw|07 9S 17E DUCHESNE 2/12/2010 BHL = Sec 18 NWNE ACTION NEW API NUMBER CODE ENTITY NO. WELL LOCATION ENTITY NO. SPUD **EFFECTIVE** QQ SC TP RG COUNTY DATE DATE 17524 Α 99999 4301350158 **UTE TRIBAL 10-26-4-3** NWSE 26 DUCHESNE 45 3W 2/11/2010 WELL 5 COMMENTS: ACTION CURRENT NEW API NUMBER WELL NAME CODE WELL LOCATION **ENTITY NO** ENTITY NO. SPUD EFFECTIVE QQ sc TP COUNTY DATE DATE WELL 5 COMMENTS: ACTION CODES (See instructions on back of form) A - 1 new entity for new well (single well only) B - well to existing entity (group or unit well) RECEIVED

NOTE: Use COMMENT section to explain why each Action Code was selected.

C - from one existing entity to another existing entity

D - well from one existing entity to a new entity E - ther (explain in comments section)

FEB 1 8 2010

Production Clerk

02/18/10

Date

Jentri Park

# BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration R	ig Name/# Ross #21	_Submitted
	Phone Number 823-	
2072 Well Name/Number <u>Moon 4-20-4</u> Qtr/Qtr <u>NE/SW</u> Section <u>20</u> Towns Lease Serial Number <u>FEE</u> API Number 43-013-50002		
<u>Spud Notice</u> – Spud is the initial sout below a casing string.	spudding of the well,	not drilling
Date/Time <u>2/5/10</u>	<u>9:00</u> AM ⊠	РМ
Casing — Please report time casing Surface Casing Intermediate Casing Production Casing Liner Other	ng run starts, not cen	nenting
Date/Time <u>2/5/10</u> <u>4:0</u>	<u>0</u> AM ☐ PM ⊠	
BOPE Initial BOPE test at surface BOPE test at intermediate c 30 day BOPE test Other	<del>-</del> -	
Date/Time	AM [ ] F	PM 🗌
Remarks		